

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 February 2005 (03.02.2005)

PCT

(10) International Publication Number
WO 2005/009389 A3

(51) International Patent Classification⁷: **A61K 31/437**,
C07D 471/04, A61P 29/00, 35/00

(21) International Application Number:
PCT/US2004/023762

(22) International Filing Date: 23 July 2004 (23.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/489,658 23 July 2003 (23.07.2003) US

(71) Applicant (for all designated States except US): **EX-ELIXIS, INC.** [US/US]; 170 Harbor Way, P.O. Box 511, South San Francisco, California 94083-0511 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ANAND, Neel Kumar** [GB/US]; 977 El Camino Real, #303, Burlingame, California 94010 (US). **BLAZEY, Charles M.** [US/US]; 201 Cornwall Street, #3, San Francisco, California 94118 (US). **BOWLES, Owen Joseph** [CA/US]; 1105 Paloma Avenue, #4, Burlingame, California 94010 (US). **BUSSENIUS, Joerg** [DE/US]; 1042 Helm Drive, Foster City, California 94404 (US). **COSTANZO, Simona** [IT/US]; 51 Jennings Lane, Atherton, California 94027 (US). **CURTIS, Jeffry Kimo** [US/US]; 310 Redwood Road, San Anselmo, California 94960 (US). **DUBENKO, Larisa** [US/US]; 3326 Balboa Street, San Francisco, California 94121 (US). **KENNEDY, Abigail R.** [US/US]; 325 W. Lowell Avenue, Tracy, California 95376 (US). **KHOURY, Richard G.** [US/US]; 225 Poseidon Lane, Redwood City, California 94065 (US). **KIM, Angie I.** [US/US]; 1000 Foster City Blvd., #4305, Foster City, California 94404 (US). **MANALO, Jean-Claire L.** [US/US]; 11 Wakefield

Avenue, Daly City, California 94015 (US). **PETO, Csaba J.** [HU/US]; 965 Shorepoint Court, #305, Alameda, CA 94501 (US). **RICE, Kenneth D.** [US/US]; 802 Autumn Lane, Mill Valley, California 94941 (US). **TSANG, Tsze H.** [US/US]; 8367 Kent Drive, El Cerrito, CA 94530 (US).

(74) Agents: **GRIEDEL, Brian D.** et al.; 170 Harbor Way, P.O. Box 511, South San Francisco, CA 94083-0511 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
15 September 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANAPLASTIC LYMPHOMA KINASE MODULATORS AND METHODS OF USE

(57) Abstract: The present invention comprises compounds and pharmaceutical compositions comprising the compounds that are inhibitors of ALK. The invention also comprises methods of using the compounds and compositions to treat diseases mediated by ALK, including diseases such as cancer, immunological disorders, cardiovascular diseases, and other degenerative disorders.



WO 2005/009389 A3